

**CENTRAL INTELLIGENCE AGENCY
SECURITY INFORMATION**

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INFORMATION REPORT

REPORT NO.

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25X1A

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COUNTRY USSR (Sverdlovsk Oblast)

DATE DISTR. 25 Jan 1952

SUBJECT Ordzhonikidze Plant for Construction of Heavy Machinery in Sverdlovsk

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PLACE
ACQUIRED

NO. OF ENCLS. 7
(LISTED BELOW)

DATE OF INFO.

**SUPPLEMENT TO
REPORT NO.**

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THIS IS UNEVALUATED INFORMATION

1. The Ordzhonikidze Plant for the Construction of Heavy Machinery is in the northern part of Sverdlovsk (56°44'N/62°05'E). In addition to this designation, [redacted] the Uralmash Plant. (1)

2. The Ordzhonikidze Plant comprises a gray iron foundry, a steel foundry and annealing shop, a large forge, several machine and assembly departments and numerous auxiliary installations. (2) Power was supplied by the plant-owned power station. [redacted] from hearsay, that power was also supplied by the Sugrez Power Plant. The plant had its own automobile and locomotive park. Chassis of the T-34 were also used as prime movers.

3. The plant produced tanks, guns, dredges, component parts for cranes, oil pumps, and household utensils made of aluminum. [] indicated a production of eight to ten shovel dredges with a volumetric capacity of three cubic meters for each shovel. (3) The oil pumps manufactured in the plant were used for crude-oil production and had a length of about three meters. About five railroad cars were repaired daily in the railroad car repair department, Workshop No 55. []

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ment, Workshop No 22. [] mentioned that the monthly quota of repaired railroad cars was 150. This quota, however, was by no means attained. The regauging of the wheel base of German and Polish freight cars was responsible for the failure to meet this quota because this work took considerably more time than had been scheduled. Machine production included part-time construction of machine tools, large presses and pilgrim step rolls (Pilgerschrittwalzen - i.e. special rolls for tube rolling mills). In connection with the gun production of the plant, [] of 76.2-mm AT guns and also the production of 85-mm AT guns. A weekly total of fifty to sixty guns of both types were produced up to December 1949. [] field howitzers, but it was not determined whether they were produced in the plant itself or elsewhere. [] also mentioned the manufacture of 150-mm barrels, but they could not supply further details. [] monthly production of 100 to 150 T-34 tanks for 1946

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The tank gun also had a muzzle brake. [redacted] 25X1
 new turrets only were being placed on old, partly repaired T-34 tanks. (4)
 25X1 [redacted] incoming shipments comprised 120 tons of coal daily
 and about 450 tons of scrap and iron ingots. [redacted] 25X1
 25X1 [redacted] indicated daily receipts of sixty tons of
 bars.

4. The chief executive of the plant was a Soviet official with the rank of general. The Soviet engineer Weber (fnu) was manager of Workshop No 31, the department for the preliminary treatment of metals. Soviet engineer Siversk (fnu) was manager of the automobile repair department. (5) [redacted] total number of employees was between 30,000 and 35,000. The first daytime shift 25X1 was composed of a greater number of workers than the other two shifts. It was estimated that 30 percent to 40 percent of the employees were female.
5. The plant was guarded by civilian personnel but military personnel were assigned to sentry duty. The plant was surrounded by a partly wood, partly barbed-wire fence. Air raid precautionary measures were not observed. (6)

[redacted] Comments.

- (1) For a map of installations in Sverdlovsk see Annex 1. This map is based on the 25X1 [redacted] It may be noted that [redacted] which was known 25X1 from wartime records to be located between the Uralmash Plant and the Sverdlovsk railroad station, was not indicated on this map. It is possible that 25X1 [redacted] has meanwhile been included in the setup of the Uralmash Plant. 25X1 With regard to the twenty annealing furnaces mentioned in item 6 of the Legend to Annex 2, [redacted] confused some of the steel foundry equipment with that of the annealing shop which adjoins the steel foundry on the south. The blast furnace shop referred to in Annex 1 (No 11) was apparently an open-hearth steel department which had not yet been recorded. Details were not available.
- (2) For plant layout and sketch see Annex 2 and 3. Annex 2, [redacted] gives 25X1 a good survey of the entire plant. Annex 3, was based on confirming and supplementing information furnished by [redacted] Both sketches correspond 25X1 in essential points and also agree with information [redacted] 25X1 [redacted] such as wartime records. The dimensions of the workshop buildings have been distorted on the sketch, with the machine and assembly departments in particular being comparatively too small.
- (3) For sketches of a dredge and of a swinging arm for lifting cranes see Annexes 4 and 5.
- (4) For diagrams of a tank hull and a tank cupola see Annexes 6 and 7.
- (5) It has been reported that the chief executive of the plant was Boris Glebovich Muzrukov.
- (6) The Ordzhonikidze Plant was one of the most important Soviet plants for the construction of heavy machinery. It was founded in 1935. During the war some of the installations were converted to the construction of medium T-34 tanks and medium self-propelled guns. In 1945, the monthly output of tanks and self-propelled guns may have approximated 450 units. [redacted] 25X1 tank production was considerably reduced after 1946 to meet the increasing 25X1 requirements for industrial equipment. [redacted]
- [redacted] the postwar production included the construction of blooming mills, rail and tube rolling mills, blast furnaces up to 1,300 cubic meters, cement furnaces, ball mills, crushing installations (Brechanlagen), large excavators, grab cranes with a volumetric capacity of three cubic meters, and crude oil drilling installations. According to Soviet press reports, the 1949 production of the plant has doubled the 1940 output and another increase is scheduled for 1950. The wartime expansion of the plant and the improvement of the plant organization including a rationalized arrangement of the plant machinery were mainly responsible for this capacity increase. Apart from the reported new

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workshops, No 7 shown in Annex 2, and No 18 and 19, shown in Annex 3, no other new workshops appear to have been built since the war. Building No 7, shown in Annex 2, and buildings No 18 and 19, shown in Annex 3, are probably identical, although the exact location could not be determined.

7 Annexes:

1. Installations in Sverdlovsk.
2. Ordzhonikidze Plant in Sverdlovsk.
3. Ordzhonikidze Plant in Sverdlovsk.
4. Diagram of a dredge manufactured by the Ordzhonikidze Plant in Sverdlovsk.
5. Diagram of a swinging arm for lifting cranes manufactured by the Ordzhonikidze Plant in Sverdlovsk.
6. Diagram of a tank hull manufactured by the Ordzhonikidze Plant in Sverdlovsk.
7. Diagram of a tank cupola manufactured by the Ordzhonikidze Plant in Sverdlovsk.

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Legend:

1. Sverdlovsk railroad station.
 2. Ration supply warehouse.
 3. Tank warehouse.
 4. Sawmill, accurate location was not known.
 5. "Plastmas" Plastics Factory.
 6. Engine plant.
 7. Industrial area.
 8. "Ordzhonikidze" Plant, also known as "Uralsmash" plant.
 9. Apprentice school of the "Uralsmash" plant.
 10. New structure.
 11. Transformer station for the Sugrez Power Plant (Sredne Uralskaya Gres).
 12. Automobile repairshop and filling station.
 13. Bakery.
 14. Vegetable warehouse.
 15. Lumber yard.
 16. PW Camp 7314/11, formerly No 7531/3.
 17. PW Camp 7531/1.
 18. PW Camp 7531/8 and 7531/3.
 19. Stadium.
 20. PW Camp 7531/3.
 21. Parking lot for tanks located in a sparsely wooded area.
 22. Water tower.
-
- A. Sverdlovsk town area.
 - B. Open terrain.
 - C. Lake.
 - D. Settlement area.
 - E. Highway to Nizhni Tagil.
 - F. Railroad line to the Sugrez Power Plant.
 - G. Railroad line to Krasnoufimsk.
 - H. Industrial railroads. They are not accurately determined. The three lines may be only one line.
 - I. Red square.

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Legend:

1. Workshop 55, a wooden structure used for the construction of railroad cars.
2. Warehouse.
3. Workshop 30, a pattern-making shop manufacturing patterns for tank turrets and tank hulls, also includes workshop 56, used for furniture carpentry.
4. Warehouse for nonferrous metals.
5. Iron foundry.
6. Steel foundry, equipped with 20 annealing furnaces.
7. New structure.
8. Workshop 80, a machine shop.
9. Workshop 26, a foundry cleaning shop. Bottom parts of tank hulls, dredge arms and parts for oil pumps were observed in this shop.
- 9a. Stone mill.
10. Forge equipped with 10 steam hammers. Gun barrel slugs were observed in this forge.
 - a. Carbide mud pit (Karbidschlammgrube).
11. Blast furnace shop with four smokestacks.
12. Automobile repairshop.
13. Iron storage area.
14. Administrative building.
15. Factory committee building.
- 16 and 17. Latheshops.
18. Workshop. Parts of dredges were observed here.
19. Cooling installation.
- 20 and 21. Transformer stations.
22. Workshop, use unknown.
23. Iron dump.
24. Central heating plant.
25. Gas producing installation.
26. Peat dumps.
27. Coal dumps.
28. Warehouse.
29. Fire department.
30. Locomotive shop.
31. Scrap dumps.
32. Material pits.
33. Concrete factory.
- 34 and 35. Workshops, use unknown.
- 36 and 37. Sheds.
38. Tanking lot.
39. Tank monument.
40. Road leading to the Red Square.

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Legend:

1. Administration and laboratory buildings.
 2. Guard station.
 4. Various buildings housing the railroad car and locomotive repair shops.
 5. Carpentry shop.
 6. Carpentry shop and storerooms.
 7. Warehouse.
 8. Workshop 34, iron foundry.
 9. Workshop 41, steel foundry.
 10. Foundry cleaning shop.
 11. Coaling tower.
 12. Forge.
 13. Workshops 80 and 82, a machine shop and a latheshop. 25X1
- they had the following equipment:
- Eighty lathes, exclusively vertical turning and boring mills, and turret lathes placed on concrete foundations (in good repair); twenty milling machines, fifteen planing machines, fifty to sixty drilling machines, and eight 2¹-ton traveling cranes. All machines in workshop 80 were of German, Swiss and British make, and were of modern design. They were constructed either after the war or at least during the war. This was confirmed by 25X1
- on the machines. the names of the foreign manufacturers but the following German firm names were seen on inscription plates: Boehringer Plant in Goepplingen (L 49/S 41), Machine Factory in Esslingen (L 49/S 11), Klingenthal Plant in Duisburg (K 52/A 31).
14. Workshop 31, preliminary treatment of metals. 25X1
- has the following equipment:
- Three large cutting shears with a cutting length of three meters each, two of them were of German make and one of Russian make; three small shears of German make but 25X1
- two small shears of Russian make, estimated cutting length one to two meters, ten to twelve turret lathes, German make, constructed in wartime, in very good condition and sixteen 10-ton traveling cranes of German and Russian make.
15. Workshop 101, manufactured engines.
 16. Toolshop.
 17. Workshops 29 and 30, machine shop and latheshop.
 18. New structure.
 19. New structure.
 20. Gun production.
 21. Warehouse.
 22. Gas producing station.
 23. Central heating plant.
 24. Metal storage dumps as well as warehouse for fuel and lubricants.
- A. Chemical factory.
 - B. Electrical parts factory.
 - C. Turbine and engine plant.
 - D. Engine plant, accurate location was not known.

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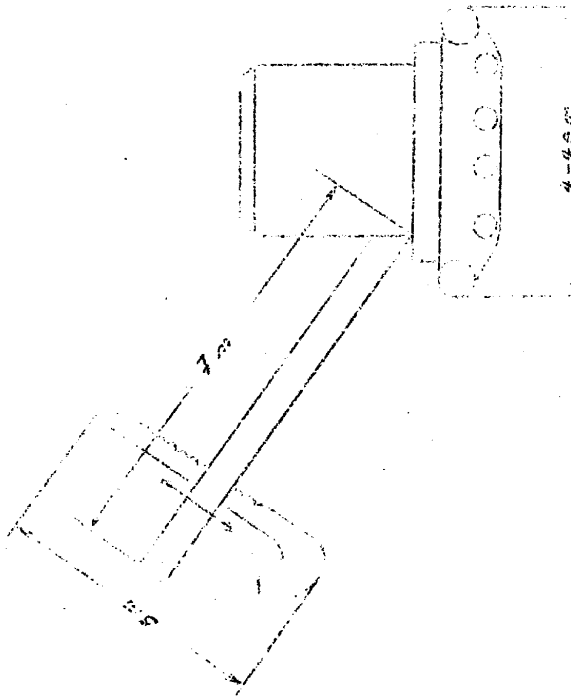
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Diagram of a dredge manufactured by the Ordzhonikidze Plant in Sverdlovsk.



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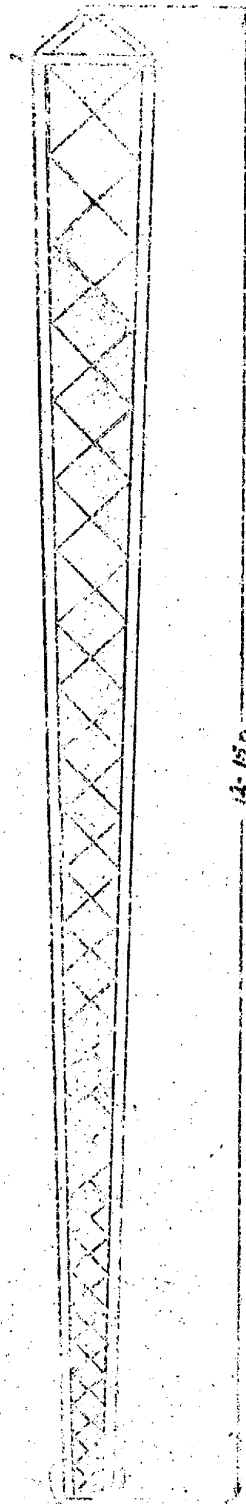
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Diagram of a Swinging Arm for Lifting Cranes Manufactured by the
Ordzhonikidze Plant in Sverdlovsk.



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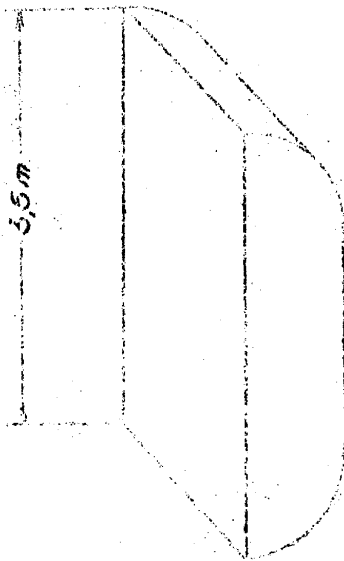
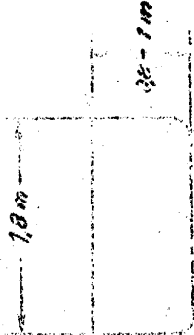
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Diagram of a Tank Hull Manufactured by the Ordzhonikidze Plant in
Sverdlovsk.



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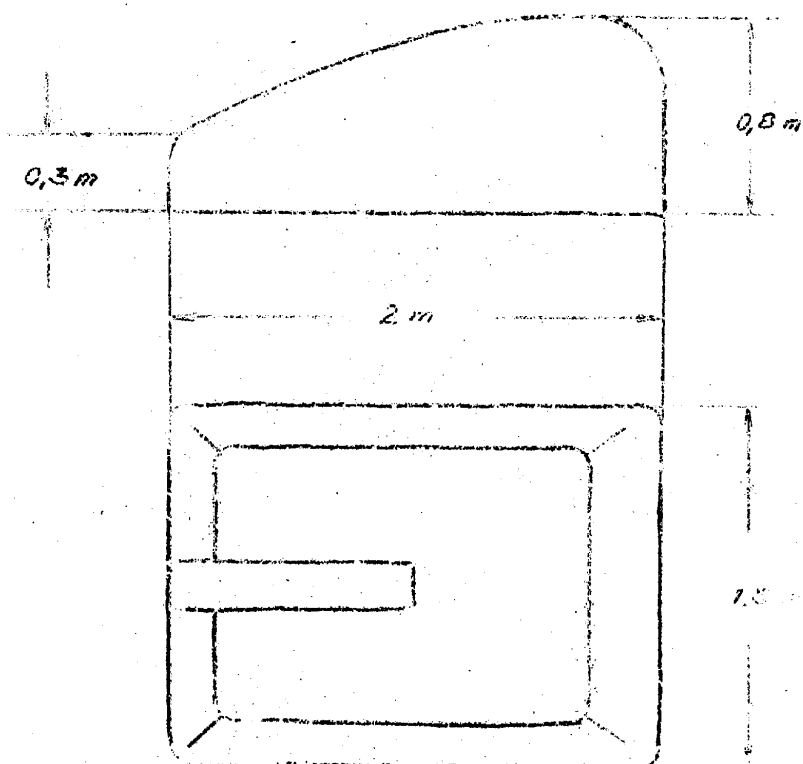
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Diagram of a Tank Cupola Manufactured by the Ordzhonikidze Plant in
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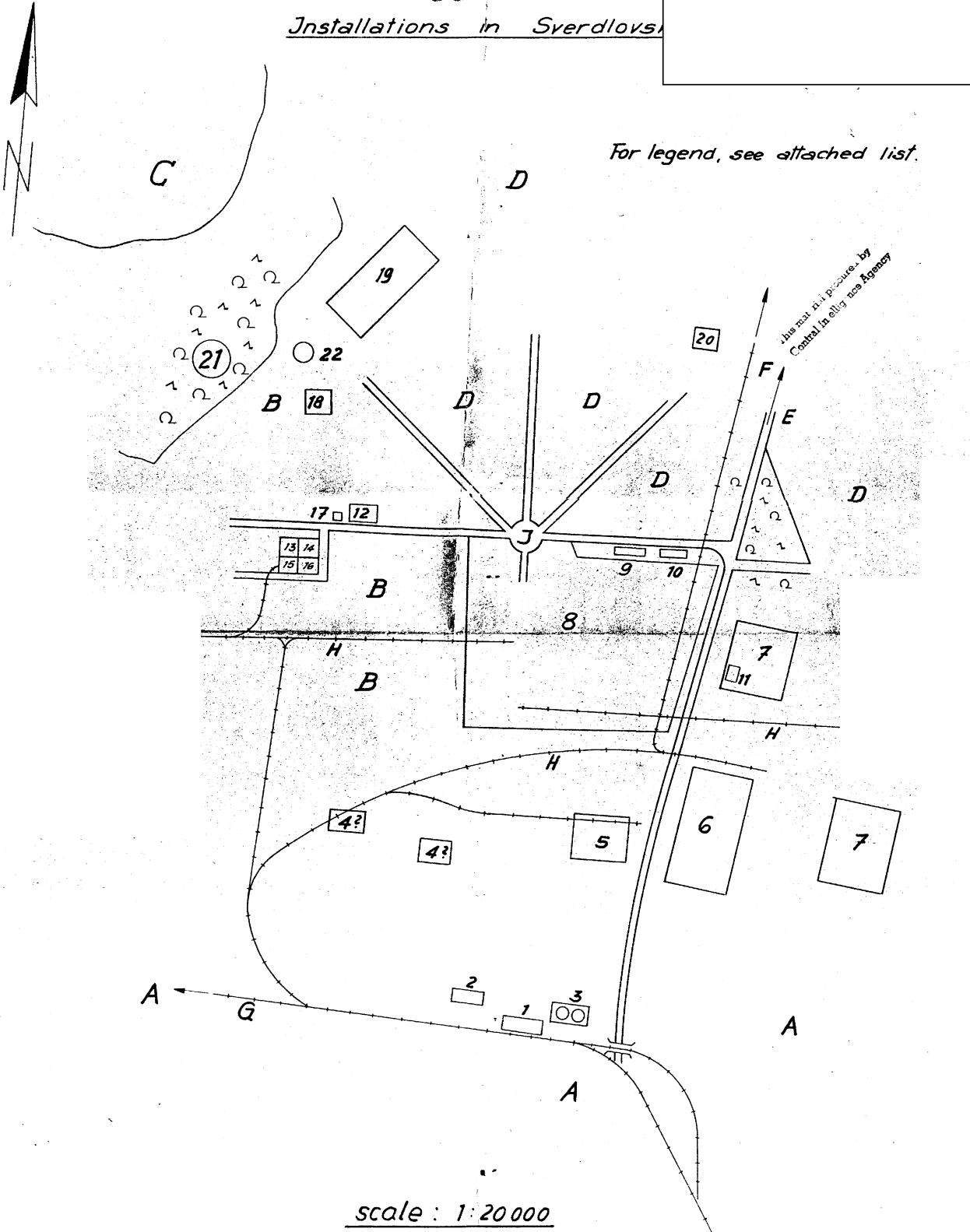
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Installations in Sverdlovsk

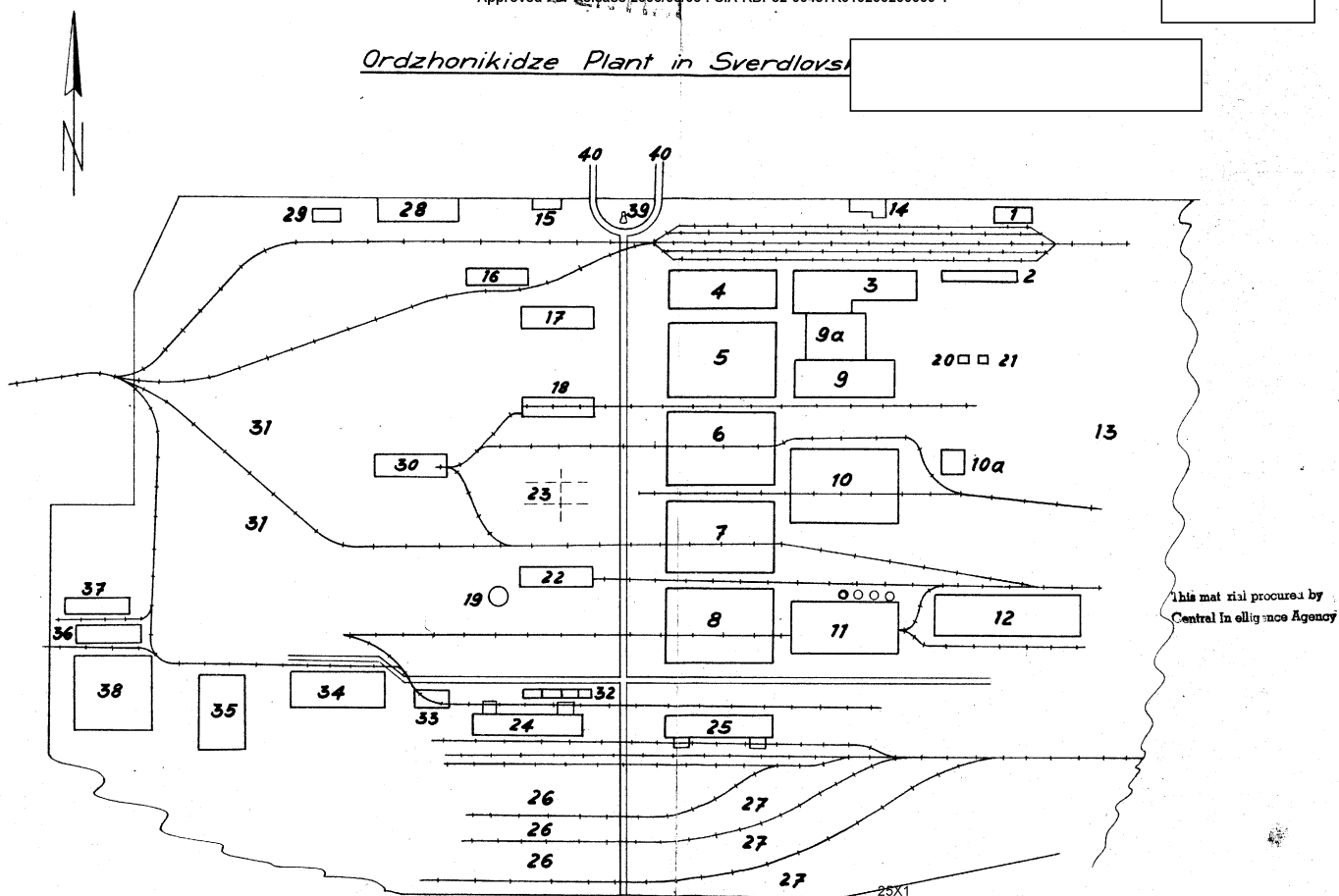
For legend, see attached list.



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Ordzhonikidze Plant in Sverdlovsk

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For legend, see attached list.

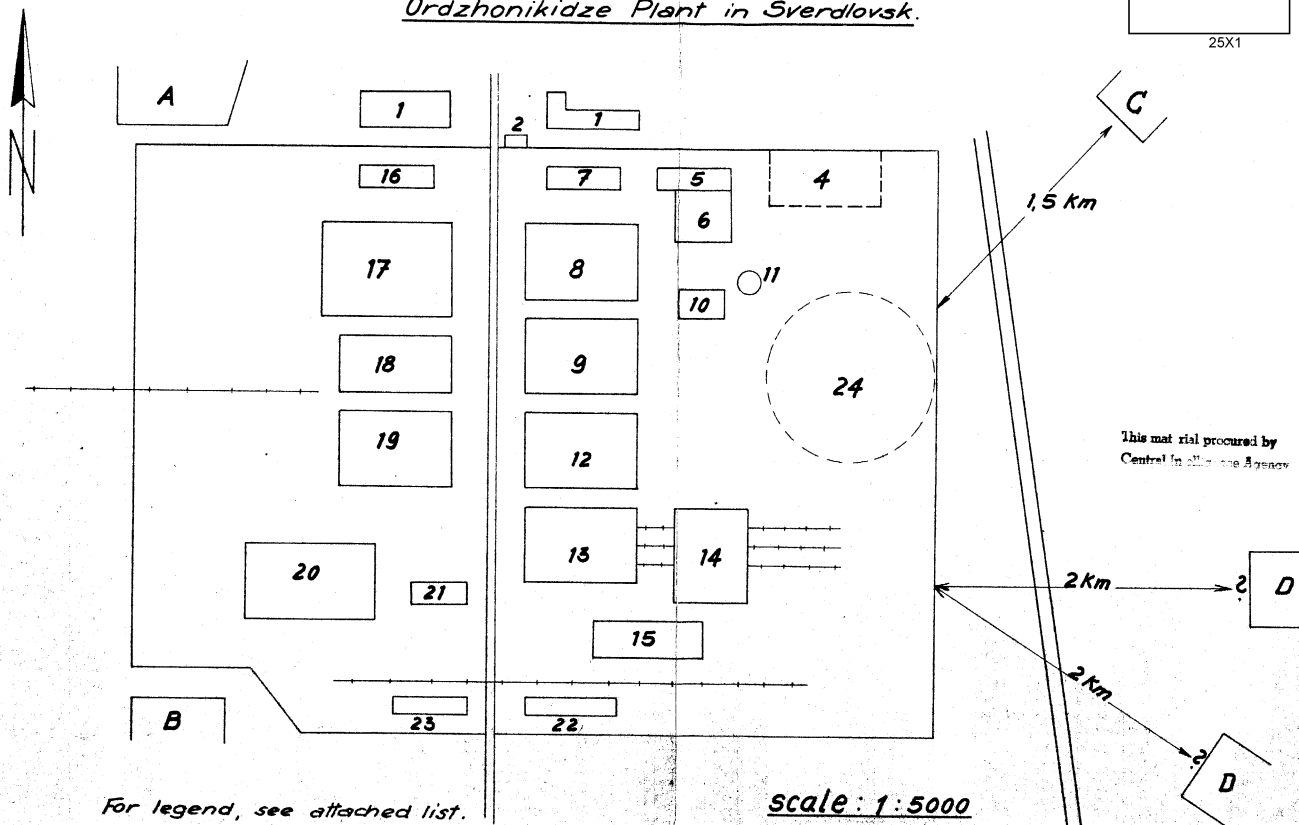
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Ordzhonikidze Plant in Sverdlovsk.

Annex 3 to:

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